

Michael Colin BEGG
Serial No. 10/812,917
September 11, 2008

AMENDMENTS TO THE CLAIMS:

This listing of claims supersedes all prior versions and listings of claims in the application:

1. (Currently Amended) A method of forming an electrical MRIS shim coil, said method comprising:

forming ~~a required~~ an MRIS shim coil pattern in a sheet of electrically conductive material by ~~cutting or punching; and~~

attaching the punched pattern of conductive material to an insulating substrate to form an MRIS shim coil.

2. (Cancelled)

3. (Currently Amended) A method as in claim ~~[[2]]~~ 1, wherein the pattern of conductive material is punched using a CNC punching ~~or stamping~~ machine.

4. (Cancelled)

5. (Withdrawn) An electrical MRIS shim coil made by the method of claim 1.

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6. (Currently Amended) A method of making an electrical MRIS shim coil, said method comprising:

creating plural adjacently positioned MRIS shim coil windings by punch-cutting a continuous sheet of electrically conductive material along spaced apart paths and removing cut-away material along said paths to leave space therealong; and, which ~~windings are physically retained in adjacent as-cut positions by~~

subsequently affixing remaining portions of the conductive material to an insulating substrate ~~adhered to said conductive material,~~

~~said cutting step including removal of conductive material along at least one cutting path by a process including at least one of: punching, stamping, laser beam and water jet cutting processes.~~

7. (Currently Amended) A method as in claim 6, wherein said punch-cutting comprises:

a first punch-cutting step wherein plural spaced-apart bridges of material are left along the cutting paths to physically maintain ~~[[the]]~~ adjacent as-cut positions of ~~[[the]]~~ conductive MRIS shim coil windings while said insulating substrate is adhered thereto, followed by a second cutting step wherein said bridges are cut off to completely form an electrical separation between ~~[[the]]~~ adjacent winding conductors thus formed.

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8. (Withdrawn) A method as in claim 6 wherein said cutting step creates one continuous spiral-like cut path in said continuous sheet of conductive material.

9. (Withdrawn) A method as in claim 6 wherein said cutting step creates plural parallel cut paths in said continuous sheet of conductive material to create opposing ends that are bent and electrically connected by forming the conductive material, and the supporting insulating substrate, into a closed shape.

10. (Withdrawn) An MRIS shim coil produced by the process of claim 6.

11. (New) A method according to claim 1, wherein the forming by punching step leaves bridging portions between lengths of conductive material in the cut pattern which lengths will form coil conductors in a finished MRIS shim coil;

said method further comprising removal of said bridging portions after attachment of the punched pattern to the substrate.